BIOL 2401 Anatomy & Physiology I

Course Syllabus: Summer 2020

"Northeast Texas Community College exists to provide responsible, exemplary learning opportunities."

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Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	5pm-6pm		5pm-6pm			Sunday's 6pm-9pm

The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog Course Description: A study of the structure and function of human organ systems including integumentary, skeletal, muscular and nervous. Animal dissection is a required component of laboratory activity in both face-to-face and online courses. The natural sciences and allied health divisions of the college strongly recommend that CHEM 1406 be the first course in the pre-nursing/pre MLT sequence and be taken prior to enrolling in A & P I. The topics covered in CHEM 1406 serve as a foundation to the following courses: Nutrition, A & P I, and A & P II; Microbiology (CHEM 1406 pre-requisite). Successful completion (final grade of C or better) of BIOL 2401 will allow the student to continue on to BIOL 2402.

Required Textbook(s): OpenStax Anatomy and Physiology
Publisher: https://openstax.org/books/anatomy-and-physiology/pages/1-introduction
ISBN Number: 978-1938168130
Software: https://classroom.cipcourses.com/login/ Caduceus A&P Courseware
Recommended Reading(s): Chapters 1 through 16 in the textbook

Student Learning Outcomes:

1. Define anatomy and physiology, explain the importance of the relationship between structure and function and be able to describe directional terms and anatomical positions.
2. Explain the nature of a human cell.
3. Describe the general make-up of a tissue and be able to recognize the primary tissue types and examples of each type.
4. Describe the general structure and function of the integumentary system.
5. Describe the general structure and function of the skeletal system inclusive of joints.
6. Summarize the major characteristics and functions of skeletal, smooth and cardiac muscle. Be able to identify the major superficial muscles of the human body.
7. Describe the general structure and function of the nervous system including special senses.
8. Communicate results of scientific investigations, analyze date and formulate conclusions using critical thinking and scientific problem-solving skills.

Evaluation/Grading Policy:

The final grade will be determined as follows:

Departmentally, lecture is 75% of course grade and lab is 25%.

For your final lecture grade:

Exams: Five (5) exams will be worth **55%** of the total lecture grade. The first four exams are worth **10%** each and your final exam is a comprehensive exam worth **15%. Exam questions will be multiple choice and short essay and will be limited to material in the text. (**The **majority of questions** will be taken from **lecture content.)**

Weekly Quizzes: A chapter quizzes (worth ten points) will be given **Monday (Posted by Midnight)** of each week, on **Blackboard (Bb)**, over material covered on that **week**. (Quizzes will be named in Bb using the chapter and PPT slide numbers.) Quizzes may be taken on campus or at home, and are limited to a minimum of **2 MINUTES per question (points will be deducted if the limit is exceeded)**. So a quiz consisting of **ten questions** will have a minimal time limit of **twenty minutes**. Please note that Bb will **NOT STOP YOU** if you go over the time limit. The number of quizzes per semester will vary, but only the **top ten scores** will be calculated as **20%** of the total lecture grade.

Assignments: Every week on **Blackboard (Bb)**, there will be **Caduceus** activities associated with the chapters and topics covered that week. The student will be responsible for reading the assigned chapter and completing the activities on **Blackboard (Bb)**. These activities will need to be completed by the **SUNDAY (at midnight)** prior to the Monday class. These assignments will count as **25%** of the total lecture grade.

Letter grades will be assigned according to the following scale: A = 90-100 C = 70-79
B = 80-89 D = 60-69
F = below 60

Please be aware that NO EXTRA CREDIT WILL BE GIVEN at the end of the semester. The average shown in Bb will determine the final course grade, and **no additional work** is possible.

Attendance: At the end of the semester, grades will be calculated according to the percentages in the syllabus, and the only adjustment that will be made is if the final percentage is **WITHIN ONE POINT** of the next letter grade (and NO more), and the student has missed **THREE OR LESS LECTURES**. (Mitigating circumstances will be taken into account at the discretion of the instructor.) The grade will then be **rounded up** to the **next letter grade**.

General:

Students should log onto **Blackboard (Bb)** ASAP and **carefully** read **all announcements. Bb** and **student email** should be checked **DAILY** for **new announcements or messages.**

Quizzes on Bb should be taken on a **RELIABLE (**not prone to problems staying online**) computer**. If **knocked offline** while taking a **quiz,** the **instructor** must **CLEAR** the quiz **BEFORE** another attempt can be made. **E-mail (both addresses) and call my office number (8am-5pm M-F) immediately!** Also don't forget to do a **SCREEN PRINT** before submitting every **quiz.**

Students should prepare ahead for class by **reading the** listed text chapters. Some lectures may also have **handouts** that should be printed from Blackboard. If a subject is **completed with class time remaining,** then the **next scheduled lecture** will commence immediately**.** Be aware that the majority of the **anatomy** will be covered in the **LABORATORY,** and **NOT** in the **lecture. Lectures** will focus on **physiological principles.**

Questions are welcomed during office hours (or by appointment), or if more convenient, they can be directed to me either by phone or e-mail. **Please do not hesitate to ask questions! There is no such thing as a stupid question. It is only stupid NOT to ASK them. It is VERY difficult to improve your course average after you fail the first exam in a course like A&P, so PLEASE contact the instructor for help or studying tips EARLY in the semester, before it is too late to make a difference.**

Exam/Quiz Make-Up Policy: If a student is unable to take an exam/quiz as scheduled, a make-up will be arranged **ONLY** if the reason is legitimate, and the instructor is notified **IN ADVANCE of the time the exam/quiz is scheduled** (or becomes unavailable), either through the telephone or e-mail. **Students who fail to make appropriate arrangements will receive a grade of "0" for the exam missed.** There will be no exceptions.

Student Responsibilities/Expectations:

If you attend this class or a portion of this class on-campus then class etiquette dictates that you will:

1. Attend class each time the class meets.
2. Be on time for class and **remain for the entire period**. You may not receive credit if you do not attend laboratory sessions.
3. Refrain from talking while the professor is lecturing. Idle chattering and giggling are disruptive to the class and disrespectful to your professor and your classmates.
4. Without prior approval from your professor, do not use cell-phones, computers, or any other electronic devices in class.
5. Be attentive and participate in class.

NTCC Academic Honesty Statement:

"Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook."

Academic Ethics

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student's responsibility to arrange an appointment with a College

counselor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

Family Educational Rights And Privacy Act (**Ferpa**):
The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.

Lectures & Discussions:

LECTURE SCHEDULE

DATE			LECTURE	CHAPTER
JUNE	8	M	Class Orientation - Syllabus, Blackboard, Lab and Textbook Intro to A&P Lab Exercise 1	1
	9	T	Cells Lab Exercise 2	2 & 3
	10	W	Tissues Lab Exercises 3	4
	11	R	Integumentary System Lab Exercise 4	5
Material End Exam				
	15	M	**EXAM 1 (Lecture and Lab Practical)**	**1-4, CH 1-5**
	16	T	Skeletal System part 1 Lab Exercises 5 & 6	6 & 7
	17	W	Skeletal System Part 2 Lab Exercises 7	8
	18	R	Joints of the Skeletal System	9

				Material	End Exam 2
	22	M	**EXAM 2 (Lecture and Lab Practical)**	**5-7, CH 6-9**	
	23	T	Muscular System Part 1 Lab Exercises 8		10
	24	W	Muscular System Part 2 Lab Exercises 9		11
	25	R	Muscular System Part 2		11

				Material	End Exam 3
	29	M	**EXAM 3 (Lecture and Lab Practical)**	**8-9, CH 10-11**	
	30	T	Nervous System Part 1 Lab Exercises 10		12
JULY	1	W	Nervous System Part 2		13
	2	R	Nervous System Part 3		14

				Material	End Exam 4
	6	M	**EXAM 4 (Lecture and Lab Practical)**	**10- 11, CH 15-16**	
	7	T	Senses Part 1 Lab Exercises 11		15
	8	W	Senses Part 2		16
	9	R	**FINAL EXAM LECTURE ONLY**		